Early pandemic forecast for Egypt M: multi-output M: multi-output M: repeated single-output (deaths + mobility) (deaths) (deaths) per million of population Prediction Prediction Prediction Truth Truth Truth 2 Death incidence 2 1 0 0 0 10 12 0 10 12 12 10 Days since April 22 2020 Days since April 22 2020 Days since April 22 2020 B: LSTM (deaths) B: Bi-LSTM (deaths) B: GRU (deaths + mobility) per million of population Prediction Prediction Prediction Truth Truth Truth 2 Death incidence 2 1 12 8 10 12 10 10 12 8 Days since April 22 2020 Days since April 22 2020 Days since April 22 2020 B: ARIMA wavelet **B**: Persistence per million of population Prediction Prediction Truth Truth Death incidence 2 0 8 10 12 $\dot{0}$ $\dot{2}$ 10 12 2

Days since April 22 2020

Days since April 22 2020